

**REMARKS**

The present amendment is submitted in response to the Office Action, dated November 4, 2002, where the Examiner has rejected claims 1-7, 9-27 and 42-49. By the present amendment, claim 6 has been cancelled, claims 1, 10, 16 and 22 have been amended, and new claims 50-68 have been added. Accordingly, claims 1-5, 7, 9-27, and 42-68 are pending in the present application. Reconsideration and allowance of pending claims 1-5, 7, 9-27 and 42-68 in view of the amendments and the following remarks are respectfully requested.

**A. Rejection of Claims 1-7, 9-27 and 42-49 Under 35 USC § 103(a)**

The Examiner has rejected independent claims 1, 10, 16 and 22 under 35 USC § 103(a) as being unpatentable over Stewart, et al. (USPN 5,761,634) ("Stewart '634") in view of Otani (USPN 6,400,693) ("Otani '693"). Applicant respectfully disagrees.

Claim 1, as amended, recites in part: "a speech data rate determinator; and a plurality of speech data signal encoders, including at least a first encoder using a first speech encoding scheme and a second encoder using a second speech encoding scheme different from said first speech encoding scheme, wherein said first encoder is a fixed bit-rate encoder". The Examiner has relied on Stewart, which describes variable bit-rate (VBR) encoding, to reject claim 1. However, applicant is not claiming VBR encoders.

As described in the background section of the present application, today, a fixed bit-rate encoder, such as G.711, G.726 and G.723.1, can be selected by network providers according to the time of the day, etc. and, as a result, every frame of the speech signal is encoded at a fixed bit-rate using the same coding scheme of the selected encoder. According to the conventional wisdom with respect to the fixed bit-rate encoders, there is no need to analyze and classify the speech signal, since the bit-rate of the selected encoder is fixed and cannot be changed.

Furthermore, conventionally, network providers may also select a variable bit-rate encoder, such as EVRC (or Enhanced Variable Rate Codec) having variable rates of 8.5K, 6.0K, 2.0K and 0.8K according the time of the day or other criteria; however, once such encoder has been selected for a certain period of time, the frame-by-frame encoding is performed using the same encoding scheme, albeit the encoder is a variable bit-rate encoder and the rate may change from frame to frame according to the speech analysis and classification. This is sharply different than applicant's claimed invention.

Applicant respectfully submits that the cited references do not disclose, teach or suggest using a speech determinator to determine a data rate for encoding each frame and selecting one of a plurality of encoders, wherein the plurality of encoders include at least a first encoder using a first speech encoding scheme and a second encoder using a second speech encoding scheme different from said first speech encoding scheme, wherein said first encoder is a fixed bit-rate encoder. Applicant has amended claim 1 to clarify that at least one of the plurality of the encoders is a fixed bit-rate encoder. Applicant respectfully submits that fixed bit-rate encoders have a settled and well-known meaning in the art, and one rate of a variable bit-rate encoder, such as EVRC 6.0K, is not considered a fixed bit-rate encoder, and is merely one of a plurality of rates supported by the variable bit-rate encoder. Applicant respectfully submits that VBR encoders, such as EVRC, are fundamentally different than fixed bit-rate encoders, such as G.711, G.726, G.723.1, etc. and one rate of a variable bit-rate encoders is not considered a fixed bit-rate encoder by one of ordinary skill in the art.

For example, none of the references suggests the desirability of encoding one frame of a speech signal using a variable bit-rate coding scheme (such as EVRC) and the next frame using a fixed bit-rate coding scheme (such as G.711), according to one possible application of claim 1. It

is respectfully submitted that, for example, there is no support for the Examiner's position that any of the cited references discloses, teaches or suggests that one frame can be encoded using one fixed bit-rate coding scheme (such as G.723.1) and the next frame using a different fixed bit-rate coding scheme (such as G.711), according to one embodiment. Further, there is not suggestion or desirability of modification in the cited references, whatsoever, to change the encoding scheme from one frame to the next, e.g., encoding one frame using a variable bit-rate coding scheme and the next frame using a different variable bit-rate coding scheme.

As stated in the response to the first Office Action, it is respectfully submitted that Otani does not add anything more than what applicant has described in the background section of the present application. In other words, the Examiner is merely relying on Otani to show that a network provider may select encoders using different encoding scheme for a particular period of time, but not for frame-by-frame processing. Applicant does not dispute that there are many different encoding schemes and that network providers may choose one or another based on certain criteria for specific periods of time; however, there is no suggestion in either Stewart or Otani for the desirability to use a different encoding scheme on a frame-by-frame basis and/or that one of the plurality of the encoders is a fixed bit-rate encoder. (See In re Fitch, 972 F.2d 1260 (Fed. Cir. 1992) ("The mere fact that the prior art may be modified in the manner suggested by the Examiner does not make the modification obvious unless the prior art suggested the desirability of the modification" (emphasis added)); see also In re Chu, 66 F.3d 292, 298 (Fed. Cir. 1995) (In a proper obviousness determination, "whether the changes from the prior art are 'minor', ... the changes must be evaluated in terms of the whole invention, including whether the prior art provides any teaching or suggestion to one of ordinary skill in the art to make the changes that would produce the patentee's ... device." (citations omitted.) This includes what

could be characterized as simple changes, as in *In re Gordon*, 733 F.2d 900, 902, 221 U.S.P.Q. (BNA) 1125, 1127 (Fed. Cir. 1984) (Although a prior art device could have been turned upside down, that did not make the modification obvious unless the prior art fairly suggested the desirability of turning the device upside down). (emphasis added.))) It is respectfully submitted that the references cited by the Examiner do not suggest the desirability of creating the system of claim 1. Accordingly, applicant respectfully submits that claim 1 and its dependent claims 2-5, 7, 9, 42, 46 and 50-52 should be allowed.

Independent claim 10 in part recites “a plurality of speech data signal encoders, including at least a first encoder using a first speech encoding scheme, a second encoder using a second speech encoding scheme different from said first speech encoding scheme, and a third encoder, wherein said first encoder is a fixed bit-rate encoder”. Accordingly, it is respectfully submitted that claim 10 and its dependent claims 11-15, 43, 44 and 47 should be allowed at least for the same reasons stated in conjunction with patentability of claim 1.

Independent claim 16 in part recites “selecting one of a plurality of speech encoders according to said data rate, said plurality of speech encoders including at least a first encoder using a first speech encoding scheme and a second encoder using a second speech encoding scheme different from said first speech encoding scheme, wherein said first encoder is a fixed bit-rate encoder”. Accordingly, it is respectfully submitted that claim 16 and its dependent claims 17-21, 45 and 48 should be allowed at least for the same reasons stated in conjunction with patentability of claim 1.

Independent claim 22 in part recites “choosing, according to a predetermined factor, one group from a plurality of groups of speech encoders, said chosen group of speech encoders including at least a first encoder using a first speech encoding scheme and a second encoder

using a second speech encoding scheme different from said first speech encoding scheme,  
wherein said first encoder is a fixed bit-rate encoder". Accordingly, it is respectfully submitted  
that claim 22 and its dependent claims 23-27 and 49 should be allowed at least for the same  
reasons stated in conjunction with patentability of claim 1.

**B. New Claims 53-68**

Applicant has added a new independent claim 53 having dependent claims 54-60.  
Independent claim 53 in part recites "a plurality of speech data signal encoders, including at least  
a first encoder using a first speech encoding scheme and a second encoder, wherein said first  
encoder is a fixed bit-rate encoder". Accordingly, it is respectfully submitted that claim 53 and  
its dependent claims 54-60 should be allowed for the reason that the cited references do not  
disclose, teach or suggest such limitation, as stated in conjunction with patentability of claim 1.

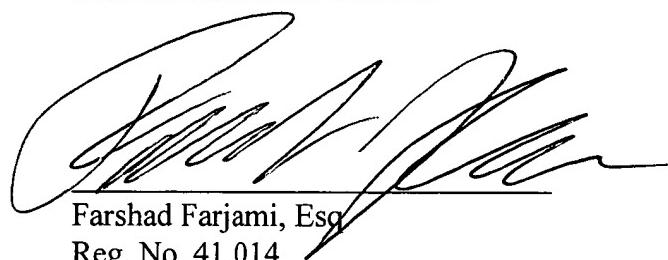
Applicant has added a new independent claim 61 having dependent claims 62-68.  
Independent claim 61 in part recites "a plurality of speech data signal encoders, including at least  
a first encoder using a first speech encoding scheme and a second encoder using a second speech  
encoding scheme different from said first speech encoding scheme". Accordingly, it is  
respectfully submitted that claim 61 and its dependent claims 62-68 should be allowed for the  
reason that the cited references do not disclose, teach or suggest such limitation, as stated in  
conjunction with patentability of claim 1.

C. Conclusion

For all the foregoing reasons, an early allowance and issuance of claims 1-5, 7, 9-27 and 42-68 pending in the present application are respectfully requested. The Examiner is invited to contact the undersigned for any questions.

Respectfully Submitted;  
FARJAMI & FARJAMI LLP

Dated: 11/18/02



Farshad Farjami, Esq.  
Reg. No. 41,014

Farshad Farjami, Esq.  
FARJAMI & FARJAMI LLP  
16148 Sand Canyon  
Irvine, California 92618  
Tel: (949) 784-4600  
Fax: (949) 784-4601

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service "First Class Mail Post Office to addressee" Service under 37 C.F.R. Sec. 1.10 addressed to Assistant Commissioner for Patents, Washington, D.C. 20231, on 11/18/02.

Lori Llave  
Name

Lori Llave  
Signature